Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) An exposure apparatus that exposes a pattern of a reticle onto a substrate, the exposure apparatus comprising:
 - a projection system to project the pattern onto the substrate;
 - a holder connected to the projection system to hold the projection system;
- a main frame support member that mounts supports the projection system by means of the holder;
- a stage that holds and moves one of the substrate and the reticle, the stage is not supported by the support member;
 - a damper that isolates the projection system from the stage;
- a detector to detect information concerning displacement of the projection system;
 - an actuator arranged on the holder; and
- a driver connected to the actuator to drive the actuator in response to <u>a</u> detection <u>results result</u> of the detector to suppress a strain of the holder resulting from a resonance of the projection system.
- 2. (Original) The exposure apparatus of claim 1, wherein the actuator includes piezoelectric elements.
- 3. (Original) The exposure apparatus of claim 1, wherein the detector is arranged on at least one of the projection system and the holder.
- 4. (Original) The exposure apparatus of claim 1, wherein the detector includes an acceleration sensor.

- 5. (Original) The exposure apparatus of claim 1, wherein the detector includes a distortion sensor.
- 6. (Original) The exposure apparatus of claim 1, wherein the detector is arranged in a vicinity of the holder.
- 7. (Original) The exposure apparatus of claim 1, wherein the actuator is arranged in a vicinity of a relatively weak part of the holder.
 - 8. (Canceled)
- 9. (Original) The exposure apparatus of claim 1, wherein the detector includes an acceleration sensor mounted to the projection system and a distortion sensor mounted to the holder.
- 10. (Original) The exposure apparatus of claim 1, wherein the actuator is mounted on an adapter plate that is releasably attached to the holder.
- 11. (Original) The exposure apparatus of claim 1, wherein the projection system is a projection optical system.
 - 12. (Canceled)
 - 13. (Canceled)
- 14. (Currently Amended) The exposure apparatus of claim 13 claim 1, wherein the stage is a substrate stage that holds and moves the substrate.
- 15. (Currently Amended) The exposure apparatus of claim 14, wherein the exposure apparatus is a scanning exposure apparatus, and the drive system of the substrate stage moves the substrate stage while the pattern is projected onto the substrate.
- 16. (Currently Amended) The exposure apparatus of-claim 13 claim 1, wherein the stage is a reticle stage that holds and moves the reticle.

- 17. (Currently Amended) The exposure apparatus of claim 16, wherein the exposure apparatus is a scanning exposure apparatus, and the drive system of the reticle stage moves the reticle stage while the pattern is projected by the projection system.
- 18. (Currently Amended) A method of making an exposure apparatus that exposes a pattern of a reticle onto a substrate, the method comprising:

providing a projection system to project the pattern onto the substrate;
providing a holder connected to the projection system to hold the projection

providing a main frame that mounts support member that supports the projection system by means of the holder;

providing a stage that holds and moves one of the substrate and the reticle, the stage is not supported by the support member;

providing a damper that isolates the projection system from the stage;

providing a detector to detect information concerning displacement of the projection system;

providing an actuator on the holder; and

system;

providing a driver connected to the actuator to drive the actuator in response to <u>a</u> detection <u>results-result</u> of the detector to suppress a strain of the holder resulting from a resonance of the projection system.

- 19. (Original) The method of claim 18, wherein the actuator includes piezoelectric elements.
- 20. (Original) The method of claim 18, wherein the detector is arranged on at least one of the projection system and the holder.
- 21. (Original) The method of claim 18, wherein the detector includes an acceleration sensor.

- 22. (Original) The method of claim 18, wherein the detector includes a distortion sensor.
- 23. (Original) The method of claim 18, wherein the detector is arranged in a vicinity of the holder.
- 24. (Original) The method of claim 18, wherein the actuator is arranged in a vicinity of a relatively weak part of the holder.
 - 25. (Canceled)
- 26. (Original) The method of claim 18, further comprising mounting the actuator on an adapter plate that is releasably attached to the holder.
 - 27. (Canceled)
- 28. (Currently Amended) The method of claim 27 claim 18, wherein the stage is a substrate stage that holds and moves the substrate.
- 29. (Currently Amended) The method of claim 27 claim 18, wherein the stage is a reticle stage that holds and moves the reticle.
- 30. (Currently Amended) A method of exposing a pattern of a reticle onto a substrate through a projection system, the method comprising:

holding the projection system with a holder;

mounting supporting the projection system to a main frame by means of

support member by the holder;

moving a stage that holds one of the substrate and the reticle, the stage is not

supported by the support member;

isolating the projection system from the stage;

detecting information concerning displacement of the projection system; and

driving an actuator mounted on the holder in response to the detected information to suppress a strain of the holder resulting from a resonance of the projection system.

- 31. (Original) The method of claim 30, wherein the actuator includes piezoelectric elements.
- 32. (Original) The method of claim 30, wherein the information concerning displacement of the projection system is detected by a detector arranged on at least one of the projection system and the holder.
- 33. (Original) The method of claim 30, wherein the information concerning displacement of the projection system is detected by an acceleration sensor.
- 34. (Original) The method of claim 30, wherein the information concerning displacement of the projection system is detected by a distortion sensor.
- 35. (Original) The method of claim 30, wherein the information concerning displacement of the projection system is detected by a detector arranged in a vicinity of the holder.
- 36. (Original) The method of claim 30, wherein the actuator is arranged in a vicinity of a relatively weak part of the holder.
 - 37. (Canceled)
- 38. (Original) The method of claim 30, wherein the actuator is mounted on an adapter plate that is releasably attached to the holder.
 - 39. (Canceled)
- 40. (Currently Amended) The method of-claim 39 claim 30, wherein the stage is a substrate stage that holds and moves the substrate.
- 41. (Currently Amended) The method of-claim 39 claim 30, wherein the stage is a reticle stage that holds and moves-the reticle.

- 42. (Currently Amended) The exposure apparatus of claim 12 claim 1, further comprising a transaction reaction system that transacts manages a reaction force exerted by a movement of the stage.
- 43. (Currently Amended) The method of claim 27 claim 18, further comprising:

 providing a transaction reaction system that transacts manages a reaction force exerted by a movement of the stage.
- 44. (Currently Amended) The method of-claim 39 claim 30, further comprising: transacting managing, in a reaction system, a reaction force exerted by a movement of the stage.
- 45. (Currently Amended) An exposure apparatus that exposes a pattern of a reticle onto a substrate, the exposure apparatus comprising:
 - a projection system to project the pattern onto the substrate;
 - a support member to support the projection system;
- a stage that holds and moves one of the substrate and the reticle, the stage is not supported by the support member;
- a damper that isolates the projection system from the stage;
- a detector to detect information concerning displacement of the projection system;
 - an actuator arranged on the support member; and
- a driver connected to the actuator <u>to drive the actuator</u> in response to a detection result of the detector to suppress an influence of resonance of the projection <u>system</u>.
- 46. (Previously Presented) The exposure apparatus of claim 45, wherein the driver suppresses a strain of the support member.
- 47. (Previously Presented) The exposure apparatus of claim 45, wherein the support member comprises a flange.

- 48. (Previously Presented) The exposure apparatus of claim 45, wherein the actuator includes piezoelectric elements.
- 49. (Previously Presented) The exposure apparatus of claim 45, wherein the detector is arranged on at least one of the projection system and the support member.
- 50. (Previously Presented) The exposure apparatus of claim 45, wherein the detector includes an acceleration sensor.
- 51. (Previously Presented) The exposure apparatus of claim 45, wherein the detector includes a distortion sensor.
- 52. (New) The exposure apparatus of claim 45, wherein the stage is a substrate stage that holds and moves the substrate.
- 53. (New) The exposure apparatus of claim 45, wherein the stage is a reticle stage that holds and moves the reticle.